## **CLAIMS**

What is claimed is:

1. A base subunit for use in a wireless spread spectrum communication system comprising:

an antenna for receiving a signal over a first frequency;

a plurality of mixers for mixing the received signal with a plurality of chipping sequences to produce a plurality of despread voice signals;

a combiner combining the despread signals and a voice signal generated at the base subunit;

a product device for mixing the combined signal with a chipping sequence; and an antenna for transmitting the mixed combined signal at a second frequency.

- 2. The base subunit of claim 1 further comprising a demodulator for demodulating the despread voice signals prior to the combining.
- 3. The base subunit of claim 1 wherein the combiner comprises a first and second combiner, the first combiner combines the despread signals and the second combiner combining the combined despread signals with the voice signal generated at the base subunit.
- 4. The base subunit of claim 1 further comprising an analog to digital converter for converting the combined signal into a digital signal.
- 5. The base subunit of claim 3 wherein the output of the first combiner is a combined voice signal of a plurality of remote units.

6. A base subunit for use in a wireless spread spectrum communication system comprising:

an antenna for receiving a signal over a first frequency;

a plurality of matched filters for mixing the received signal to produce a plurality of despread voice signals;

a combiner combining the despread signals and a voice signal generated at the base subunit;

a product device for mixing the combined signal with a chipping sequence; and an antenna for transmitting the mixed combined signal at a second frequency.

- 7. The base subunit of claim 6 further comprising a demodulator for demodulating the despread voice signals prior to the combining.
- 8. The base subunit of claim 6 wherein the combiner comprises a first and second combiner, the first combiner combines the despread signals and the second combiner combining the combined despread signal with the voice signal generated at the base subunit.
- 9. The base subunit of claim 5 further comprising an analog to digital converter for converting the combined signal into a digital signal.
- 10. The base subunit of claim 8 wherein the output of the first combiner is a combined voice signal of a plurality of remote units.
- 11. A base subunit for use in a wireless spread spectrum communication system comprising:

means for receiving a signal over a first frequency;

means for producing a plurality of despread voice signals using the received signal;

means for combining the despread signals and a voice signal generated at the base subunit;

means for mixing the combined signal with a chipping sequence; and means for transmitting the mixed combined signal at a second frequency.

- 12. The base subunit of claim 11 wherein the producing means is a plurality of mixers.
- 13. The base subunit of claim 11 wherein the producing means is a plurality of matched filters.
- 14. The base subunit of claim 11 comprising a demodulator for demodulating the despread voice signals prior to the combining.
- 15. The base subunit of claim 11 wherein the combining means comprises a first and second combiner, the first combiner combines the despread signals and the second combiner combining the combined despread signals with the voice signal generated at the base subunit.
- 16. The base subunit of claim 11 further comprising an analog to digital converter for converting the combined signal into a digital signal.
- 17. The base subunit of claim 15 wherein the output of the first combiner is a combined voice signal of a plurality of remote units.